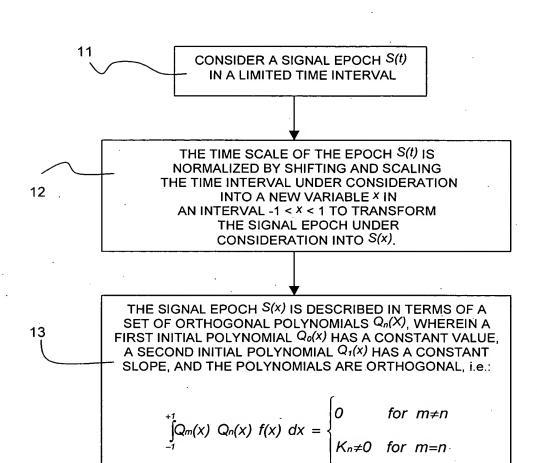
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FIGURE 1 -



WHERE f(x) IS A FUNCTION OF x AND K_n IS A CONSTANT DEPENDING ONLY ON THE ORDER n.

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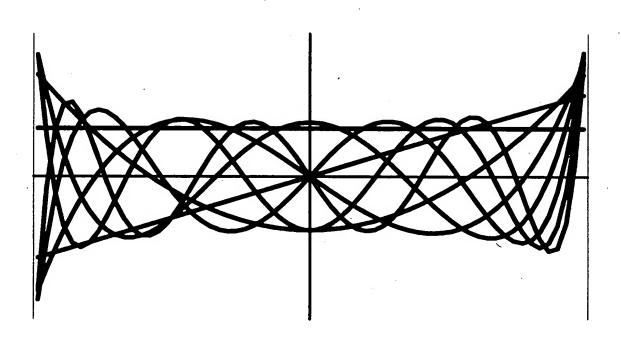
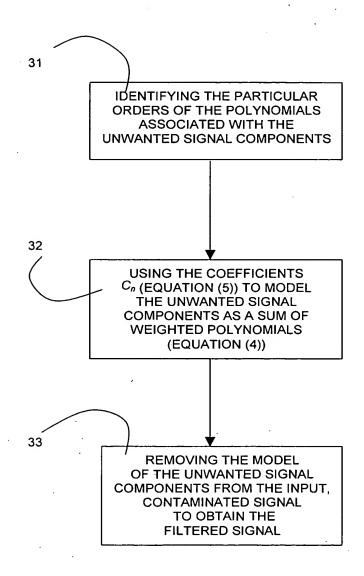


FIGURE 2

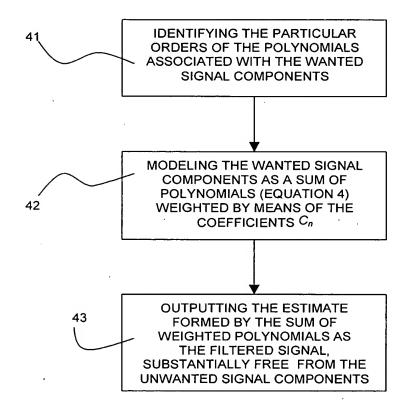
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FIGURE 3



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FIGURE 4



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FIGURE 5

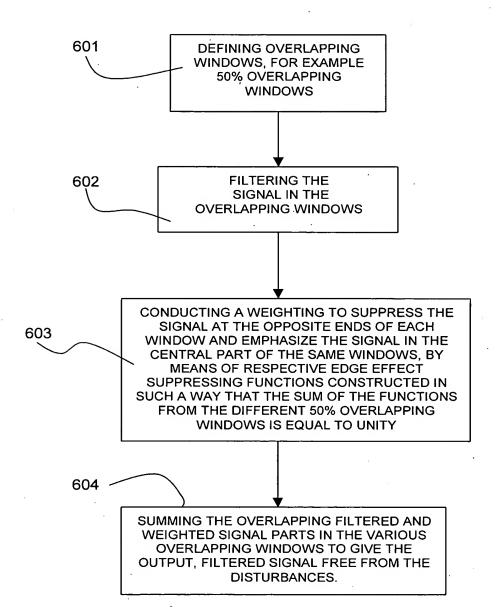
USING THE COEFFICIENTS C_n
AS ESTIMATES OF THE
SIGNAL STRENGTH

ADDING THE SET OF COEFFICIENTS C_n TO
PROVIDE AN ESTIMATE OF THE SIGNAL
STRENGTH, FOR EXAMPLE BY SUMMING
THE COEFFICIENTS C_n ON A SQUARE LAW
BASIS TO GIVE AN ESTIMATE OF THE
SIGNAL POWER, SUCH AS BY SUMMING
THE SQUARED COEFFICIENTS C_n
WEIGHTED BY AN APPROPRIATE
FUNCTION OF THE ORDER n

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FIGURE 6



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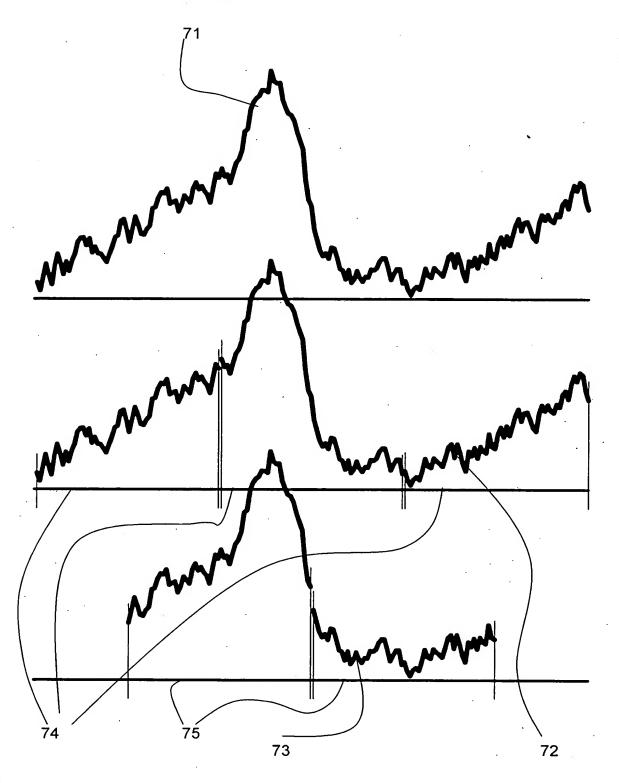


FIGURE 7

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Atty: TATurano/SKWitonsky
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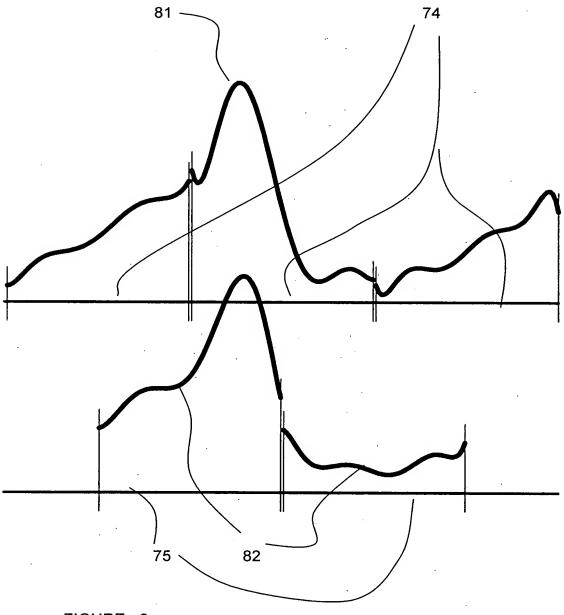
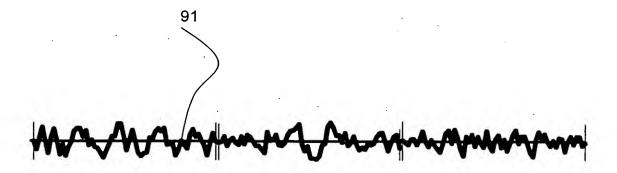


FIGURE 8

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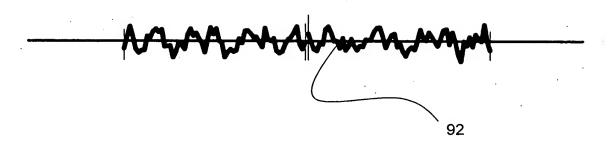
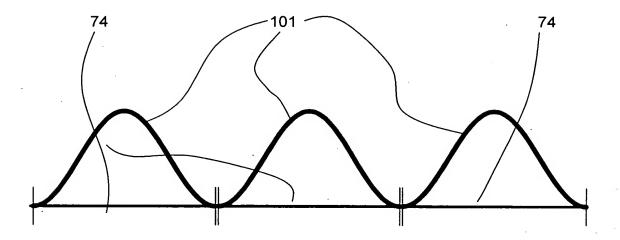


FIGURE 9

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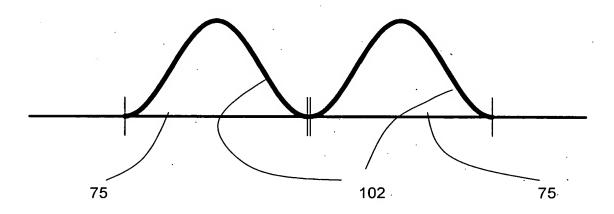
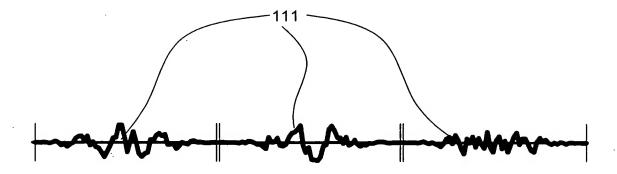


FIGURE 10

Title: Signal Filtering Using Orthogonal Polynomials and Removal of Edge Effects
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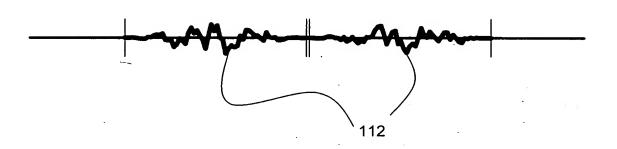


FIGURE 11

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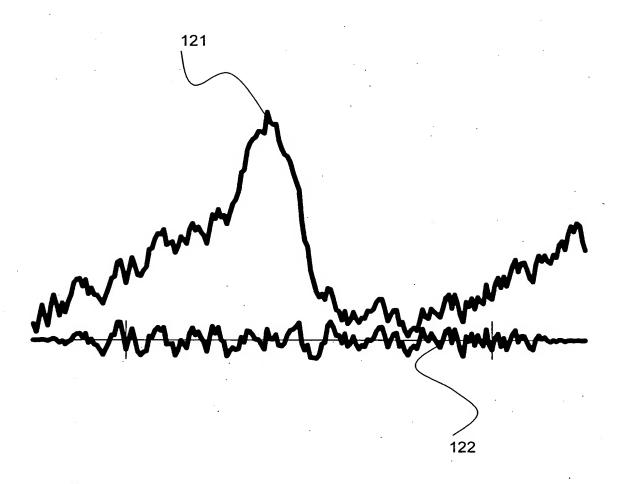


FIGURE 12